[ANARTS - Australian National Amateur Radio Teletype Society]

ANARTS News Bulletin 865 2nd July 1995

WE APOLOGISE FOR THE LACK OF SOME RELAYS THIS WEEKEND BUT HOPE TO SOLVE THAT PROBLEM SOON.

BE PREPARED FOR THE ODD ONE-LINER SCATTERED THROUGH THE CAST. SEE HOW MANY YOU CAN SPOT.

NEW TECHNIQUE LETS SCIENTISTS MAP MOVEMENT OF EARTHQUAKES

Scientists using a new tool to interpret radar images have been able to observe and map the precise spot on Earth where movement took place during an earthquake.

Using radar images from the European remote sensing satellite (ERS-1), taken before and after the May 17, 1993, 6.1 earthquake in Eureka Valley, Calif., geologist Dr. Gilles Peltzer and radar scientist Dr. Paul Rosen of NASA's Jet Propulsion Laboratory studied the surface movement.

"This technique allows you to see things you can't see otherwise," said Rosen. "We were able to detect changes in the position of the surface of the Earth, from before to after the earthquake, that were smaller than the width of your finger. And that was from 800 kilometers, or about 500 miles, out in space."

In fact, Rosen and Peltzer were able to show that the Eureka Valley earthquake created a surface rupture of about 3 centimeters, a little more than 1 inch.

This technique of comparing satellite images -- called radar interferometry -- makes possible mapping of very small motions over wide areas and allows scientists to study earthquakes on a global scale in remote areas that have been relatively inaccessible until now.

"Interferometry requires images taken before and after the earthquake to measure the change caused by it. Because ERS-1 is continuously mapping large portions of the Earth with radar, chances were good of finding images taken before an earthquake, even in remote places like Eureka Valley," Peltzer explained.

The radar maps produced with this technique -- called interferograms -- are being used along with more traditional scientific tools to locate the underground shifts associated witH earthquake activity.

The Jet Propulsion Laboratory's radar interferometry earthquake research is sponsored by NASA's Office of Mission to Planet Earth.

FROM NASA

BARTG AMTOR/PACTOR CONTEST JULY 8-9 1995

CONTEST PERIOD:
  AMTOR: FROM 0000Z SATURDAY TO 0000Z SUNDAY (24 HOURS)
  PACTOR: FROM 0000A SUNDAY TO 0000Z MONDAY (24 HOURS)
     NO REST PERIODS REQUIRED.

BANDS: 80, 40, 20, 15, AND 10M.

CATEGORIES:
  1. SINGLE OP, AMTOR 3. SINGLE OP, COMBINED
  2. SINGLE OP, PACTOR 4. MULTI-OP, COMBINED
  5. SWL
  SINGLE TRANSMITTER ONLY

EXCHANGE: RST + QSO NR. + TIME IN UTC.
  USE FEC FOR CALLING, AND ARQ FOR CONTEST MESSAGE EXCHANGE.

MULTIPLIERS: EACH DXCC COUNTRY, INCLUDING FIRST QSO WITH W, VE, AND VK, COUNTS AS A MULTIPLIER ON EACH BAND. ALSO, EACH CALL DISTRICT IN W, VE, AND VK WILL COUNT AS AN ADDITIONAL MULTIPLIER ON EACH BAND. IN ADDITION, EACH CONTINENT (6) COUNTS ONCE, NOT ONCE PER BAND. STATIONS ENTERING IN COMBINED CATEGORIES COUNT MULTIPLIERS ONLY ONCE PER BAND, REGARDLESS OF MODE.

QSO POINTS: COUNT 1 POINT FOR EACH COMPLETED QSO. SAME STATION MAY BE WORKED ON OTHER BANDS. DUPLICATE QSOS ON SAME BAND RECEIVE ZERO POINTS AND MUST BE CLEARLY MARKED IN THE LOG.

FINAL SCORE: TOTL QSO POINTS X TOTAL MULTIPLERS X NUMBER OF CONTINENTS (MAX 6).

MORE NEXT WEEK

DIGITAL JOURNAL COMMENT ON THIS CONTEST --

BARTG HAS BROUGHT IN THEIR WELL-KNOWN AND WELL-LIKED RTTY CONTEST FORMAT AND FITTED INTO A UNIQUE AMTOR/PACTOR COMBINATION MODE. ITS A BRIGHT IDEA, AND A WAY TO SPREAD CONTESTORS AROUND IN THE DIGITAL MODES. THE CONTEST WILL ALSO PROVIDE A CLEVER COMPARISON AS TO WHICH MODE HAS THE ADVANTAGE IN QSO RATES, AND FEC PILEUPS, AND SWIRCHING FROM FEC TO ARQ IN THE QRM, ALL IN ONE WEEKEND. PLACE YOUR BETS: WHICH MODE HAS THE EDGE?

THERE ARE THREE KINDS OF PEOPLE : THOSE WHO CAN COUNT AND THOSE WHO CANNOT.

IPS WEEKLY SOLAR AND GEOPHYSICAL REPORT
(23 JUNE - 29 JUNE)

ISSUED ON 30 JUNE 1995

SUMMARY

Date	23	24	25	26	27	28	29
10cm	72	71	71	71	72	74	78
A	8	5	14	24	9	9	(5)
T	23	30	22	32	22	23	21

SOLAR ACTIVITY WAS VERY LOW THROUGHOUT THE PERIOD.

THE GEOMAGNETIC FIELD AT LEARMONTH (W.A.) WAS QUIET ON 23RD TO 24TH, AND 28TH TO 29TH JUNE; QUIET TO ACTIVE ON 25TH, UNSETTLED ON 26TH, AND QUIET TO UNSETTLED ON 27TH JUNE.

IONOSPHERIC F2 CRITICAL FREQUENCIES WERE NEAR PREDICTED MONTHLY VALUES, EXCEPT FOR 26TH WHEN VALUES WERE ENHANCED BY TEN PER CENT. SPREAD F WAS OBSERVED DURING LOCAL NIGHT ON 25TH JUNE.

FORECAST (30 JUNE - 06 JULY)

SOLAR: VERY LOW.

GEOMAGNETIC: QUIET.

IONOSPHERIC: NEAR PREDICTED MONTHLY VALUES, WITH SOME SPORADIC E LAYER.

COURTESY OF THE IPS RADIO AND SPACE SERVICES

MADNESS TAKES ITS TOLL - PLEASE HAVE EXACT CHANGE.

RTDX0623 RTTY DX

VK2SG RTTY DX NOTES FOR WEEKENDING 23 JUNE 95 (BID RTDX0623)

Our information this week came from: DJ3IW and the Central Europe DXCluster Node DB0SPC, DL5EBE, DU7CC, I5FLN and the IK5PWJ PacketCluster, K6WZ, JF1MGI, JH2PDS/1, ON6TT, VK2SG, WB2CJL, WB2DND, WU3V Cluster, W5KSI, ZS5S, 425 DX News, and the NJ0M Node of the Minnesota DX Packet Cluster Network. Thanks to all for your assistance.

BANDPASS: (signals are 45.5 baud RTTY unless noted)
FRIDAY 16
0008-14088 XE3ARU
0010-14086 SP5GRM QSL VIA SP5ES
0022-14084 PA3CXO
0028-14081 GI0BQX
0032-14088 UT1IZ
0046-14081 S54A
0124-14083 OH0/DL5FF
0130-14087 KL7KJ
0138-14086 4X6UO
0508-14085 T20XC QSL via JE1DXC Masa Mihara, 4-22-23 Honda, Urawa Saitama 336, Japan
0531-14083 OH0/DL5FF
1028-14085 OH0/DJ2PJ
1041-14086 ZF2VV QSL via NX1L
1211-14082 UT5PF
1218-14081 UX0KN
1241-14085 T20XC
1539-14089 OX3LX QSL via OZ1DJJ
1542-14085 OH0/DL5FF
1602-14081 5R8DG QSL via F6FNU

2134-14085 ZF2VV
2146-14083 LX6UO
2224-14087 EW1MM
2306-14083 EA8AFJ
2310-14087 ZF2VV

SATURDAY 17
0001-14084 EW1MM
0040-14083 3V8BB QSX up. QSL via JF2EZA
0403-14084 UX0KN
0118-14084 3V8BB
1144-14088 ZF2VV
1641-14070 SV9CAG Pactor
1655-14077 9N1AA Pactor
1804-14082 9N1AA
1927-14087 OH0/DL5FF
1933-14083 GD4EBA
2005-14082 TY1PS
2102-14089 KP2N
2040-14090 UR5EDU
2055-14086 RZ1ZR
2114-14085 UX1CN
2123-14085 HK4DF
2135-14083 VP5JM
2152-14083 9K2HN
2154-14086 CX7BF
2157-14085 VK2KM
2203-14086 YO3APJ
2204-14078 3V8BB
2205-14077 HK3CAA Pactor
2318-14081 UX0KN
2239-14085 KP2/N9NCX
2332-14084 EA2CCL
2334-14084 OK1DF
2335-14084 HI8ERQ
2356-14079 3V8BB

SUNDAY 18
0034-14079 3V8BB
0038-14083 YO3APJ
0150-14084 CT1AUR
0207-14082 OH0/DL5FF
0215-14081 3V8BB
0222-14087 SP5GRM
0241-14088 OX3LX
0301-14081 UN5PR
0301-14081 3V8BB
0330-14081 RU3AT
0400-14081 UT5PF
0512-14084 3V8BB
0556-14080 T20XC
0808-14091 7X4AB
0822-14084 OH0/DL5FF
1213-14088 ZF2VV
1306-14088 JA3DLE/1
1400-21083 3V8BB
1514-21088 CX7BFF
1759-14080 8P6SAE

MONDAY 19
0351-14083 YN1CB
0520-14070 A35CB Pactor
0721-14083 HS0AC

1155-14085 OH0/DL5FF
1600-14087 4J0/IK2BHX QSL via IK2MRZ
2139-14085 HK4DF
2359-14087 PJ2MI

TUESDAY 20
0051-14084 WP4Q
1423-14082 3V8BB
1509-14075 5R8DS Pactor
1649-14088 PP2ZDX
2035-14088 9A17A
2045-14087 PJ2MI

WEDNESDAY 21
0151-14084 XE1BEF
0421-14084 T20XC
1505-14085 EA6MQ
1605-14085 ER3KS
1638-14087 9A17A
1748-14081 EA6NB
1749-14081 LY2PCU
1850-14083 3V8BB
2023-14085 EA9AN
2350-14086 PP7FB

THURSDAY 22
0324-14085 T20XC
0337-14085 AH6HH
0349-14086 CT1AUR
0438-14085 EA3EEO
1911-14081 EA8IN
1920-14092 ZP5FGS
1951-14083 FG5FI

NOTES OF INTEREST:

>From now until 10 August, Tom, LA4LN will be operating in the Caribbean as 8P9CR, J8/LA4LN, and 9Y4/LA4LN, 160-10 metres, CW, SSB and RTTY. QSL direct to Tom Segalstad, P.O. Box 15 Kjelsas, N-0411, Oslo, Norway.

ANGOLA, D2 - Peter, ON6TT advises he will be on RTTY from D2 for a period of two months starting within a couple of weeks. Listen for D2TT.

MONGOLIA, JT - A group of Japanese operators will operate /JT1 on CW, SSB, RTTY, and SSTV between 12-16 July. They are JA0HC, JA0IXW, JF0QIR, and JR0CGJ.

SVALBARD, JW - Between 18 July and 10 August, Dominick, DL5EBE will operate CW and RTTY, on 10-40 metres as JW0K. QSL to home CBA or via Buro.

UNITES ARAB EMIRATES, A6 - Don, WB2DND will return to the UAE to operate A61AD fir three days starting 24 July, and again fromm 31 July to 2 August. He plans to be QRV on RTTY on those days. QSL to WB2DND.

The VK2SG RTTY DXNOTES are also available on Internet via Telnet or FTP at ab6z.ampr.org, at reflectors dx@ve7tcp.ampr.org, and digital-dx@st.rim.or.jp. See also the OH2BUA WebCluster at URL http://www.clinet.fi/~jukka/webcluster.html

For next week's bulletin send your bandpass to Bob, WB2CJL @ W5KSI.#NOLA.LA.USA.NA.

COMING EVENTS

JULY	2nd	DARC CORONA 10m Digital contest
	8TH-9TH	BARTG AMTOR/PACTOR CONTEST
	15TH-16TH	DARC HF RTTY CONTEST
AUGUST	19th-20th	SARTG WW RTTY CONTEST

Society information

The Society may be contacted at : PO Box 860, Crows Nest 2065 Australia, for such matters as membership and general enquiries. Enquiries can also be made by packet to the President(Col) VK2CTD at VK2XSB, or the Secretary (Pat) VK2JPA at VK2AAB.

News items may be sent to Broadcast Officer PO Box 60 Blacktown 2148 Australia, or by packet to VK2JPA at VK2AAB. Email address for the Broadcast Officer is :

patl(at)pitt.conmusic.su.oz.au

The Society welcomes news items on any digital subjects from anywhere in the broadcast coverage area. We are looking for-ward to news from your areas to let other amateurs know what you are doing in the hobby. Hope to hear from you.

73s de Pat VK2JPA Broadcast Officer

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Opinions expressed are mine. | E7 FE 97 88 E5 02 3C AE 9C 8C 54 5B 9A D4 A0 CD